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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/629,700	07/30/2003	Yu-Yu Chen	MR2863-124	5351
4586	7590 09/22/2004		EXAMINER	
ROSENBERG, KLEIN & LEE 3458 ELLICOTT CENTER DRIVE-SUITE 101			MACHUGA, JOSEPH S	
	CITY, MD 21043		ART UNIT PAPER NUMBE	PAPER NUMBER
	•		3762	

DATE MAILED: 09/22/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	P
	10/629,700	CHEN, YU-YU	:
Office Action Summary	Examiner	Art Unit	
	Joseph S. Machuga	3762	•
The MAILING DATE of this communication aperiod for Reply	ppears on the cover sheet v	vith the correspondence addre	ess
A SHORTENED STATUTORY PERIOD FOR REP THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR 1 after SIX (6) MONTHS from the mailing date of this communication If the period for reply specified above is less than thirty (30) days, a re - If NO period for reply is specified above, the maximum statutory perio - Failure to reply within the set or extended period for reply will, by statu Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	I. 1.136(a). In no event, however, may a seply within the statutory minimum of the dwill apply and will expire SIX (6) MO tute, cause the application to become A	i reply be timely filed irty (30) days will be considered timely. NTHS from the mailing date of this commandation (35 U.S.C. § 133).	nunication.
tatus			
1) Responsive to communication(s) filed on			
2a) ☐ This action is FINAL . 2b) ☑ Th	nis action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice under			erits is
isposition of Claims			
 4) ☐ Claim(s) 1-6 is/are pending in the application 4a) Of the above claim(s) is/are withdrest 5) ☐ Claim(s) is/are allowed. 6) ☒ Claim(s) 1-6 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and an are subject to restriction and are subject. 	rawn from consideration.		
pplication Papers			
9) The specification is objected to by the Examir	ner.		
10) The drawing(s) filed on is/are: a) □ ac	ccepted or b) objected to	by the Examiner.	
Applicant may not request that any objection to the		` '	4.40.44.0
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the I			•
riority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bure * See the attached detailed Office action for a list	nts have been received. nts have been received in a light in the control of the	Application No n received in this National Sta	age
tachment(s)			

Application/Control Number: 10/629,700

Art Unit: 3762

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 2-4 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The role of the differential amplifier 63 is not understood. As it currently appears the inputs from pre-amplifiers 61 and 62 would be close to identical. Therefore the output of the differential amplifier would be close to zero rather than a signal representative of the heart beat. Clarification on this point is needed.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-6 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 lacks proper antecedent basis for "the body" recited therein.

Art Unit: 3762

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 5 and 6 are rejected under 35 U.S.C. 103(a) as being unpatentable over Tsubata #6447456 in view of Wolfe #4120294 and Chen #5778880.

Tsubata discloses a heart rate monitor having as (illustrated in Figures 4a and 4b) a casing (61), watchband (62) and two sensors (19, 19`.) The reference notes in column 2 lines 34+ that two sensors are used instead of one to reduce the occurrence of error in detection. Not disclosed by this reference is the specific type of sensor.

Wolfe discloses a heart rate monitor having a casing 12, watchband 15+ and inner and outer plates 13, 14. Contact with the outer plate 14 by the users other hand completes the sensing circuit. The design provides an accurate reading of the pulse and reduces fluctuations in the readings caused by movement of the arm.

Chen discloses a heart rate monitor. The sensing leads 4 extend from a band to a circuit board 1 through a contact 11. The design reduces noise.

Given these teaches, it would have been obvious to one of ordinary skill in the art to use plate like sensors as taught by Wolfe in place of the sensors in Tsubata to provide a design to provide an accurate reading of the pulse and reduce fluctuations in the readings caused by movement of the arm. To attach the sensor plates to the circuit board in a manner taught by Chen to reduce noise would also have been obvious to one of ordinary skill in the art.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joseph S. Machuga whose telephone number is 703-305-6184 (After November 4: 571-272-4951.) The examiner can normally be reached on M-F 6:30-3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela D Sykes can be reached on 703-308-5181. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Art Unit: 3762

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Joe Machigan Congel D. After

ANGELA D. SYKES
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700